

APR 27 2000

Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/403,262

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

RAW SEQUENCE LISTING

DATE: 04/19/2001

PATENT APPLICATION: US/09/403,262A

TIME: 10:43:15

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

PS

4 <110> APPLICANT: Theres, Nikolaus
 6 <120> TITLE OF INVENTION: PLANTS WITH CONTROLLED SIDE-SHOOT
 7 FORMATION AND/OR ABSCISSION ZONE FORMATION
 10 <130> FILE REFERENCE: 11216-002001
 12 <140> CURRENT APPLICATION NUMBER: 09/403,262A
 C--> 13 <141> CURRENT FILING DATE: 2000-01-05
 15 <150> PRIOR APPLICATION NUMBER: DE/197 15 700.9
 16 <151> PRIOR FILING DATE: 1997-04-15
 18 <150> PRIOR APPLICATION NUMBER: PCT/DE98/01070
 19 <151> PRIOR FILING DATE: 1998-04-15
 21 <160> NUMBER OF SEQ ID NOS: 14
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 1729
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Lycopersicon esculentum
 30 <400> SEQUENCE: 1
 31 cctctgtcct tccccccagg tccccttttt ttcttttctc tctctccttt atttctcttt 60
 32 tcataagcat attctttctc tctctagggt ttctacttct acctgaaata gtgttggttaa 120
 33 attgaatgat atgttaggat ccttttggtc ttcatcatct caatctcacc ctcatcatga 180
 34 tgaagaatct tctgatcatc atcaacagcg tagattcacc gctactgcta caactatcac 240
 35 caccaccacc atcactacct caccagctat tcaaatccgc cagctactca ttagctgtgc 300
 36 ggagttgatt tcgcagtcgc atttctcggc cgcgaaaaga ctcttacta tattatcaac 360
 37 taactcatct ccttttggtg attcaactga acggttagtc catcaattta ctgcgcact 420
 38 ttcccttcgt ctcaaccgct atatatctgc aaccaccaat catttcatga cacctgttga 480
 39 aacaactcca actgattctt cttctctctg atcattagct ctaattcaat catcatatct 540
 40 atctctaaac caagttaccc ctttcataag gtttactcaa ttaaccgcta atcaagcgat 600
 41 tttagaagcg attaacggtg atcatcaagc aatccacata gttgatttcg acattaatca 660
 42 cgggggttcaa tggccaccgt taatgcgaag actagctgat cgttaccctg ctcccactct 720
 43 tcgaatcacc ggtactggaa atgacctga tacccttcgt agaacaggtg atcgtttagc 780
 44 taaatttgct cactcattag ggttgagatt tcaattccat cctctttata tagccaataa 840
 45 taaccacgat cagcatgaag atccttctat tatttctctc attgtactac tccctgatga 900
 46 aaccctagct atcaactgtg ttttctacct ccaccgcctt ttaaaagacc gcgaaaagtt 960
 47 aaggattttt ttgcataagg ttaagtcaat gaaccctaaa attgttacia tcgcggagaa 1020
 48 ggaagcaaat cataaccatc ctcttttttt acaaagattc atcgaggcgt tggattatta 1080
 49 tacagctgtg tttgattcac tggaagctac attgccaccg ggtagtcgag agaggatgac 1140
 50 agttgaacaa gtgtggtttg ggagagagat tgttgatata gttgcgatgg aaggagataa 1200
 51 aaggaaagaa agacatgaaa ggttttagatc atgggaagtt atgttgagga gttgtggatt 1260
 52 tagtaatggt gctttaaagg cttttgcatt atcacaagct aagcttcttt tgagacttca 1320
 53 ttatccttct gaaqgctatc aactcggagt ttctagtaat tctttcttct taggttggca 1380
 54 aaatcaaccc cttttctcca tctcgtcttg gcgttgagaa aaactatcaa atagccaact 1440
 55 tcagagggta attaagacta ctgatatgtt aggagggatc tgaagaaaac gcgtggagtg 1500
 56 aaaaccctaa ataaccagat tttctaatga agttgtagta gtagaaattt gcatggtgaa 1560
 57 gaacaatatt gaagaggatg tgaatttcca tgtttttttt gttttactta ttgatatgaa 1620
 58 tgttttaaaa tttttaacat agaggactag gttgatgata tatagtattt aagttaacta 1680
 59 gtctttgtat aacgcaagat cttgatcaac ttatttttat ttttaatta 1729
 61 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING

DATE: 04/19/2001

PATENT APPLICATION: US/09/403,262A

TIME: 10:43:15

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

62 <211> LENGTH: 428

63 <212> TYPE: PRT

64 <213> ORGANISM: Lycopersicon esculentum

66 <400> SEQUENCE: 2

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67 Met Leu Gly Ser Phe Gly Ser Ser Ser Ser Gln Ser His Pro His His
68 1 5 10 15
69 Asp Glu Glu Ser Ser Asp His His Gln Gln Arg Arg Phe Thr Ala Thr
70 20 25 30
71 Ala Thr Thr Ile Thr Thr Thr Thr Thr Thr Ser Pro Ala Ile Gln
72 35 40 45
73 Ile Arg Gln Leu Leu Ile Ser Cys Ala Glu Leu Ile Ser Gln Ser Asp
74 50 55 60
75 Phe Ser Ala Ala Lys Arg Leu Leu Thr Ile Leu Ser Thr Asn Ser Ser
76 65 70 75 80
77 Pro Phe Gly Asp Ser Thr Glu Arg Leu Val His Gln Phe Thr Arg Ala
78 85 90 95
79 Leu Ser Leu Arg Leu Asn Arg Tyr Ile Ser Ser Thr Thr Asn His Phe
80 100 105 110
81 Met Thr Pro Val Glu Thr Thr Pro Thr Asp Ser Ser Ser Ser Ser
82 115 120 125
83 Leu Ala Leu Ile Gln Ser Ser Tyr Leu Ser Leu Asn Gln Val Thr Pro
84 130 135 140
85 Phe Ile Arg Phe Thr Gln Leu Thr Ala Asn Gln Ala Ile Leu Glu Ala
86 145 150 155 160
87 Ile Asn Gly Asn His Gln Ala Ile His Ile Val Asp Phe Asp Ile Asn
88 165 170 175
89 His Gly Val Gln Trp Pro Pro Leu Met Gln Ala Leu Ala Asp Arg Tyr
90 180 185 190
91 Pro Ala Pro Thr Leu Arg Ile Thr Gly Thr Gly Asn Asp Leu Asp Thr
92 195 200 205
93 Leu Arg Arg Thr Gly Asp Arg Leu Ala Lys Phe Ala His Ser Leu Gly
94 210 215 220
95 Leu Arg Phe Gln Phe His Pro Leu Tyr Ile Ala Asn Asn Asn His Asp
96 225 230 235 240
97 His Asp Glu Asp Pro Ser Ile Ile Ser Ser Ile Val Leu Leu Pro Asp
98 245 250 255
99 Glu Thr Leu Ala Ile Asn Cys Val Phe Tyr Leu His Arg Leu Leu Lys
100 260 265 270
101 Asp Arg Glu Lys Leu Arg Ile Phe Leu His Arg Val Lys Ser Met Asn
102 275 280 285
103 Pro Lys Ile Val Thr Ile Ala Glu Lys Glu Ala Asn His Asn His Pro
104 290 295 300
105 Leu Phe Leu Gln Arg Phe Ile Glu Ala Leu Asp Tyr Tyr Thr Ala Val
106 305 310 315 320
107 Phe Asp Ser Leu Glu Ala Thr Leu Pro Pro Gly Ser Arg Glu Arg Met
108 325 330 335
109 Thr Val Glu Gln Val Trp Phe Gly Arg Glu Ile Val Asp Ile Val Ala
110 340 345 350
111 Met Glu Gly Asp Lys Arg Lys Glu Arg His Glu Arg Phe Arg Ser Trp

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

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112          355          360          365
113 Glu Val Met Leu Arg Ser Cys Gly Phe Ser Asn Val Ala Leu Ser Pro
114          370          375          380
115 Phe Ala Leu Ser Gln Ala Lys Leu Leu Leu Arg Leu His Tyr Pro Ser
116 385          390          395          400
117 Glu Gly Tyr Gln Leu Gly Val Ser Ser Asn Ser Phe Phe Leu Gly Trp
118          405          410          415
119 Gln Asn Gln Pro Leu Phe Ser Ile Ser Ser Trp Arg
120          420          425
122 <210> SEQ ID NO: 3
123 <211> LENGTH: 20
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Primer for PCR
130 <400> SEQUENCE: 3
131 ttaggggtttt cactccacgc
133 <210> SEQ ID NO: 4
134 <211> LENGTH: 22
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Primer for PCR
141 <400> SEQUENCE: 4
142 tccccctttt ttctttctc tc
144 <210> SEQ ID NO: 5
145 <211> LENGTH: 20
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Primer for PCR
152 <400> SEQUENCE: 5
153 ttccccactc aagccaactc
155 <210> SEQ ID NO: 6
156 <211> LENGTH: 20
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Primer for PCR
163 <400> SEQUENCE: 6
164 ggtggcaatg tagcttccag
166 <210> SEQ ID NO: 7
167 <211> LENGTH: 22
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Primer for PCR
174 <400> SEQUENCE: 7
175 tcgaggcggt ggattattat ac

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RAW SEQUENCE LISTING

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TIME: 10:43:15

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

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177 <210> SEQ ID NO: 8
178 <211> LENGTH: 19
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Primer for PCR
185 <400> SEQUENCE: 8
186 ggcccccata tctttttcc 19
188 <210> SEQ ID NO: 9
189 <211> LENGTH: 1296
190 <212> TYPE: DNA
191 <213> ORGANISM: Solanum tuberosum
193 <400> SEQUENCE: 9
194 atgttaggat cctttggttc ttcattcatct caatctcacc ctcatcatga tgaagaatct 60
195 tctgataatc atcaacggcg tagattcacc gctactacta caactatcac caccaccacc 120
196 acaacgagct caccagctat tcaaatcgc cagctactca tttagctgtg ggagttgatt 180
197 tcgcggtccg atttctcggc cgcgaaaaga ctcttaccac tattatcaac taactcttct 240
198 ccttttggtg attcaactga acggttagtc catcagttta ctgcgcact ttcccttcgt 300
199 ctcaaccgct atatatcgtc aaccaccaat catttcatga cacctgttga aacaactcca 360
200 actgattctt catcttcgtt gccatcgtea tcattagctc taattcaate atcatatcat 420
201 tctctaaatc aagttacccc ttttataagg ttactcaat taaccgctaa tcaagcgatt 480
202 ttagaagcga ttaacggtaa tcatcaagca atccacatcg ttgatttoga cattaatcac 540
203 ggggttcaat ggccaccgtt aatgcaagca ctagctgate gttaccctgc tctactctt 600
204 cgaatcaccg gtactggaaa tgaacttgat acccttcgta gaacaggtga tcgtttagct 660
205 aaatttgctc actcattagg gttgagattt caattccatc ctctttatat cgccaataat 720
206 aacgcgcatc acggtgaaga tccttctatt atttctccca ttgtacttct cctgatgaa 780
207 accctagcta tcaactgtgt tttctatctc caccgccttt taaaagaccg cgaaaaatta 840
208 aggatttttt tgcatagggt taagtcaatg aacctaaaa ttgttacaat cgcggagaag 900
209 gaagcaaatc ataaccatcc ttttttttta caaagattta tcgaggcggt ggattattat 960
210 acagctgtgt ttgattcatt ggaagctaca ttgccaccgg gtagtcgtga gaggatgaca 1020
211 gttgaacaag tgtggttttg gagagaaatt gttgatatcg tggcgatgga aggagataaa 1080
212 aggaaagaaa gacatgaaag gtttagatca tgggaagtta tgttgaggag ttgtggattt 1140
213 agtaatgttg ctttaagccc ttttgcatta tcacaagcta agcttctttt gagactacat 1200
214 tatccttctg aaggctatca actcggagtt tcgagtaatt ctttcttctt aggttggcaa 1260
215 aatcaacctc tttctccat ctgccttgg cgttga 1296
217 <210> SEQ ID NO: 10
218 <211> LENGTH: 431
219 <212> TYPE: PRT
220 <213> ORGANISM: Solanum tuberosum
222 <400> SEQUENCE: 10
223 Met Leu Gly Ser Phe Gly Ser Ser Ser Ser Gln Ser His Pro His His
224 1 5 10 15
225 Asp Glu Glu Ser Ser Asp His His Gln Arg Arg Arg Phe Thr Ala Thr
226 20 25 30
227 Thr Thr Thr Ile Thr Thr Thr Thr Thr Thr Thr Ser Pro Ala Ile Gln
228 35 40 45
229 Ile Arg Gln Leu Leu Ile Ser Cys Ala Glu Leu Ile Ser Arg Ser Asp
230 50 55 60
231 Phe Ser Ala Ala Lys Arg Leu Leu Thr Ile Leu Ser Thr Asn Ser Ser

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DATE: 04/19/2001

PATENT APPLICATION: US/09/403,262A

TIME: 10:43:15

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

```

232 65          70          75          80
233 Pro Phe Gly Asp Ser Thr Glu Arg Leu Val His Gln Phe Thr Arg Ala
234          85          90          95
235 Leu Ser Leu Arg Leu Asn Arg Tyr Ile Ser Ser Thr Thr Asn His Phe
236          100          105          110
237 Met Thr Pro Val Glu Thr Thr Pro Thr Asp Ser Ser Ser Ser Leu Pro
238          115          120          125
239 Ser Ser Ser Leu Ala Leu Ile Gln Ser Ser Tyr His Ser Leu Asn Gln
240          130          135          140
241 Val Thr Pro Phe Ile Arg Phe Thr Gln Leu Thr Ala Asn Gln Ala Ile
242 145          150          155          160
243 Leu Glu Ala Ile Asn Gly Asn His Gln Ala Ile His Ile Val Asp Phe
244          165          170          175
245 Asp Ile Asn His Gly Val Gln Trp Pro Pro Leu Met Gln Ala Leu Ala
246          180          185          190
247 Asp Arg Tyr Pro Ala Pro Thr Leu Arg Ile Thr Gly Thr Gly Asn Asp
248          195          200          205
249 Leu Asp Thr Leu Arg Arg Thr Gly Asp Arg Leu Ala Lys Phe Ala His
250 210          215          220
251 Ser Leu Gly Leu Arg Phe Gln Phe His Pro Leu Tyr Ile Ala Asn Asn
252 225          230          235          240
253 Asn Arg Asp His Gly Glu Asp Pro Ser Ile Ile Ser Ser Ile Val Leu
254          245          250          255
255 Leu Pro Asp Glu Thr Leu Ala Ile Asn Cys Val Phe Tyr Leu His Arg
256          260          265          270
257 Leu Leu Lys Asp Arg Glu Lys Leu Arg Ile Phe Leu His Arg Val Lys
258          275          280          285
259 Ser Met Asn Pro Lys Ile Val Thr Ile Ala Glu Lys Glu Ala Asn His
260          290          295          300
261 Asn His Pro Leu Phe Leu Gln Arg Phe Ile Glu Ala Leu Asp Tyr Tyr
262 305          310          315          320
263 Thr Ala Val Phe Asp Ser Leu Glu Ala Thr Leu Pro Pro Gly Ser Arg
264          325          330          335
265 Glu Arg Met Thr Val Glu Gln Val Trp Phe Gly Arg Glu Ile Val Asp
266          340          345          350
267 Ile Val Ala Met Glu Gly Asp Lys Arg Lys Glu Arg His Glu Arg Phe
268          355          360          365
269 Arg Ser Trp Glu Val Met Leu Arg Ser Cys Gly Phe Ser Asn Val Ala
270          370          375          380
271 Leu Ser Pro Phe Ala Leu Ser Gln Ala Lys Leu Leu Leu Arg Leu His
272 385          390          395          400
273 Tyr Pro Ser Glu Gly Tyr Gln Leu Gly Val Ser Ser Asn Ser Phe Phe
274          405          410          415
275 Leu Gly Trp Gln Asn Gln Pro Leu Phe Ser Ile Ser Ser Trp Arg
276          420          425          430
278 <210> SEQ ID NO: 11
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 04/19/2001

PATENT APPLICATION: US/09/403,262A

TIME: 10:43:16

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04192001\I403262A.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12